Title: Kinematic Quantification of Gait Asymmetry Based on Bilateral Cyclograms

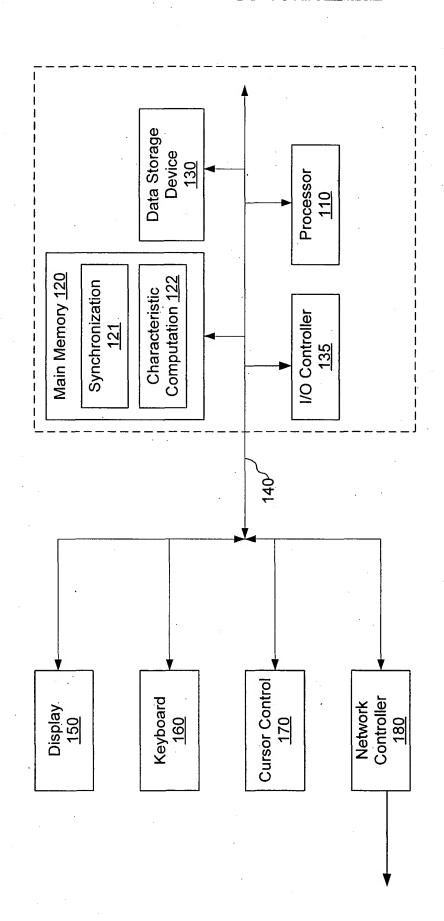


Figure 1

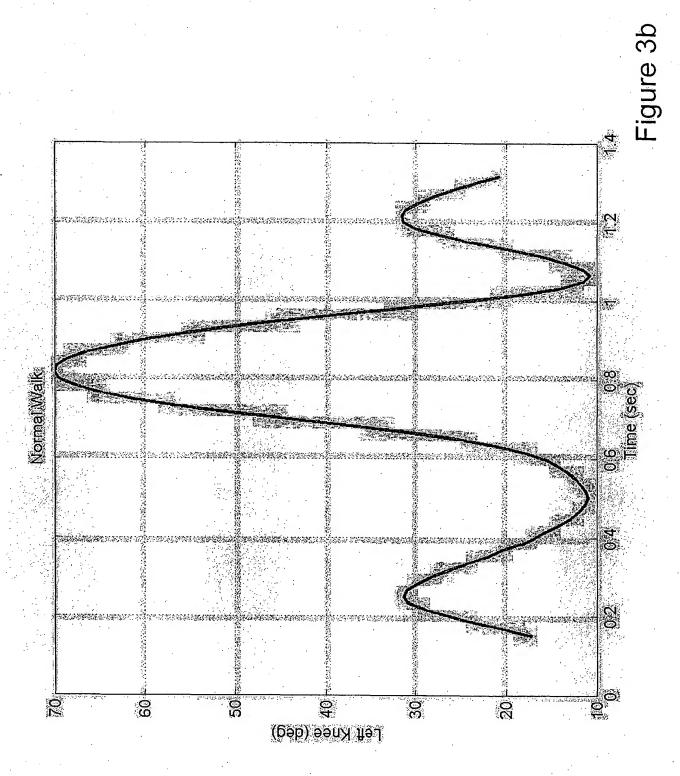
200 Receive data <u>210</u> Synchronize data 220 Generate bilateral cyclogram 230 Measure characteristics of cyclogram 240 Compare characteristics of

cyclogram based on actual gait with cyclogram based on perfectly symmetrical gait <u>250</u>

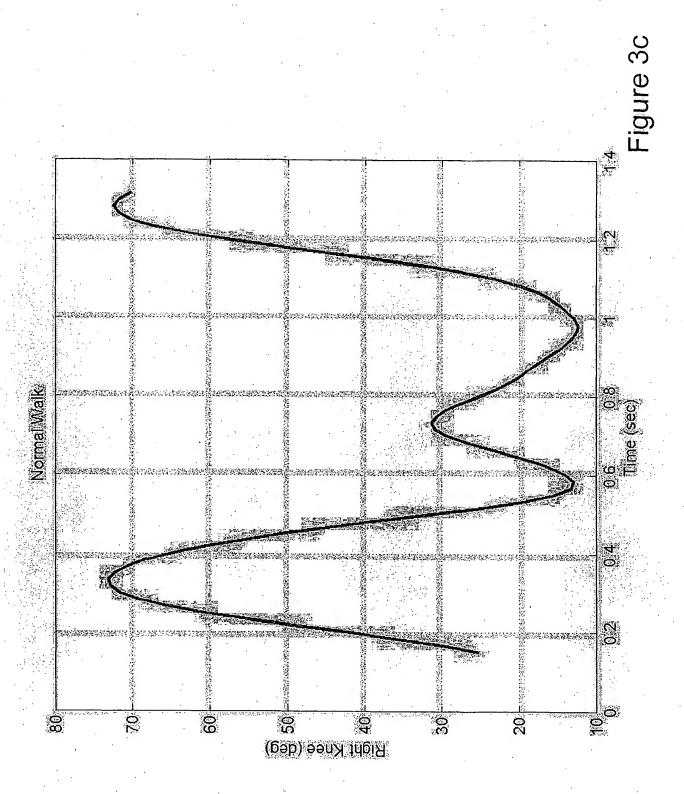
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Figure 2

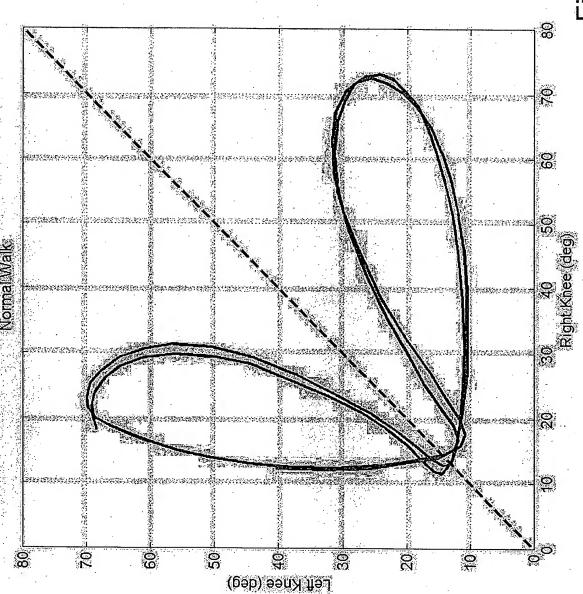
Time (seconds)	Left Knee (degrees)	Right Knee (degrees)
0	40.487	12.31
0.0167	32.837	12.101
0.0333	25.791	12.288
0.05	19.811	13.285
0.0667	15.156	13.93
0.0833	12.546	. 15.288
0.1	11.87	16.73
0.1167	12.628	18.95
0.1333	14.496	21.445
0.15	17.234	25.199
0.1667	19.871	29.939
0.1833	. 23.218	35.602
0.2	26.277	41.844
0.2167	28.937	48.608
0.2333	30.813	55.085
0.25	31.313	60.789
0.2667	30.925	65.489
0.2833	29.678	. 69.101
0.3	28.191	71.574
0.3167	26.359	72.791
0.3333	24.401	73.12
0.35	22.228	72.323
0.3667	20.526	70.646
0.3833	18.333	68.254
0.4	16.855	64.841
0.4167	15.459	60.875
0.4333	14.049	56.194
0.45	12.782	51.019
0.4667	´ 11.898	44.928

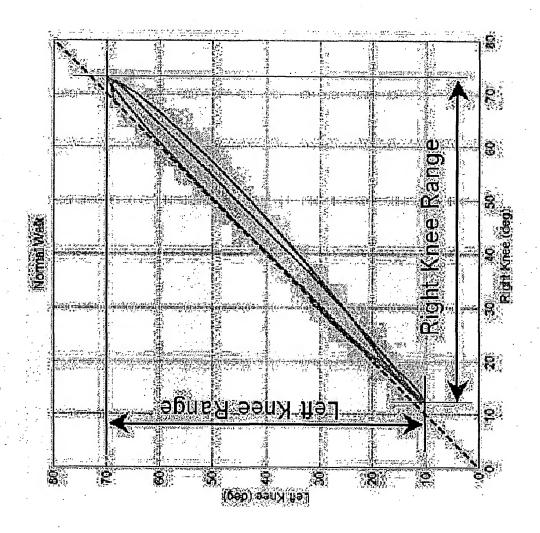


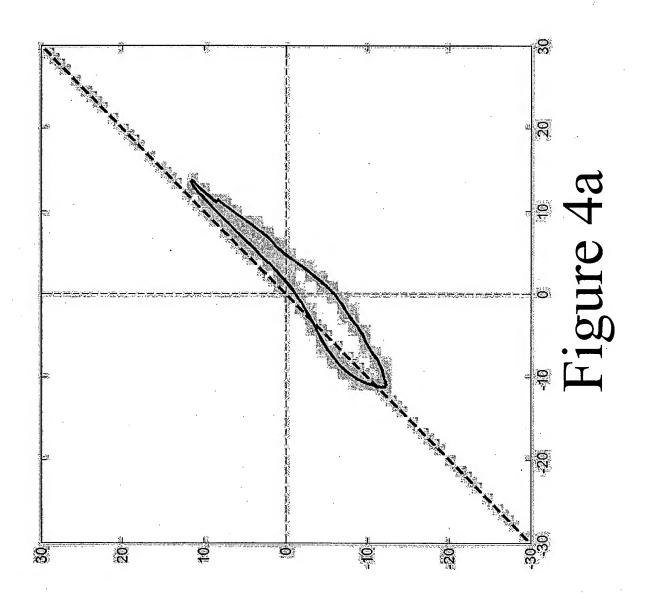
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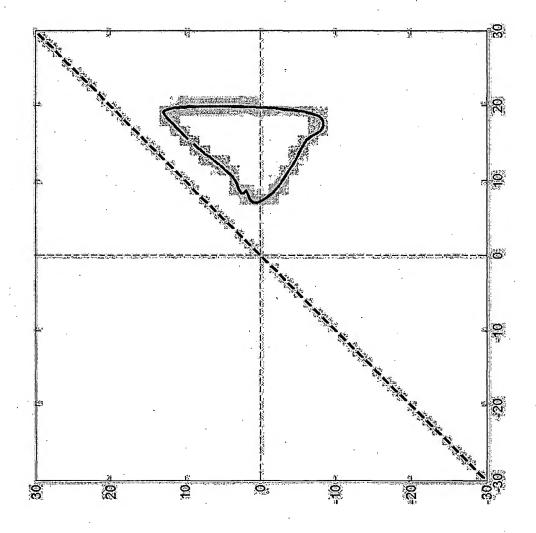


Figure 4b

Title: Kinematic Quantification of Gait Asymmetry Based

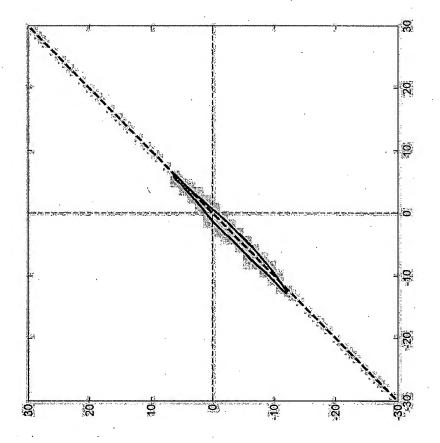
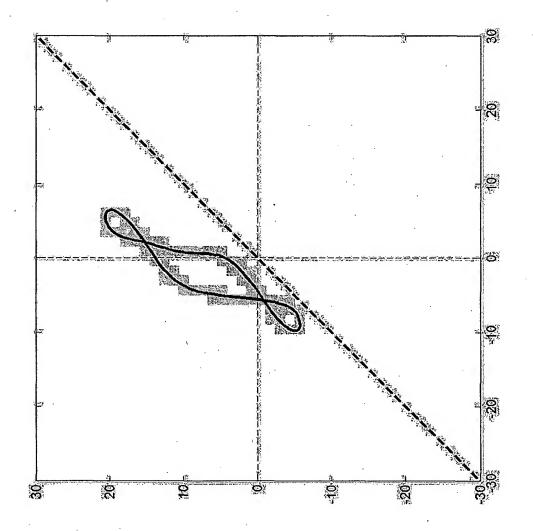
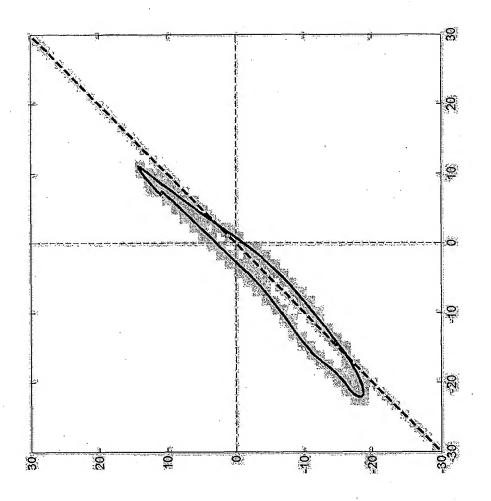
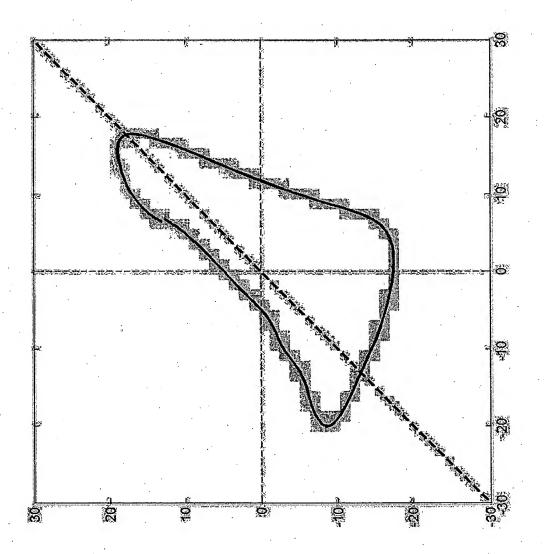
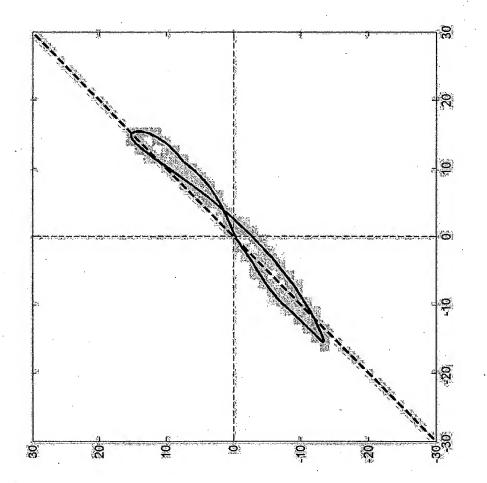


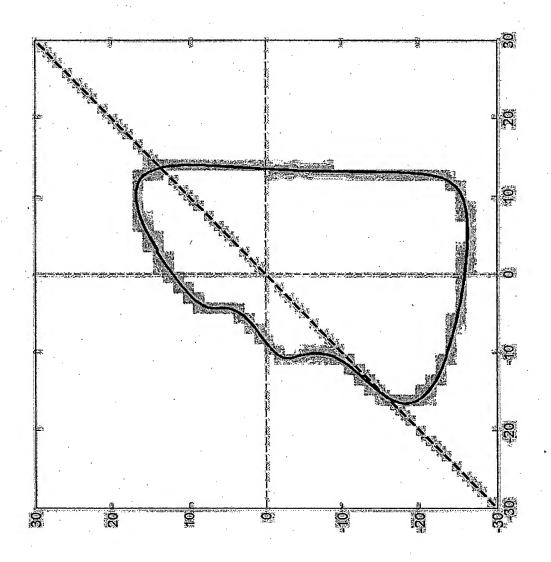
Figure 4c

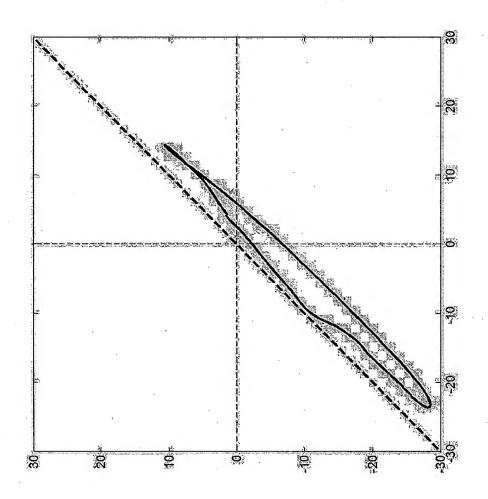


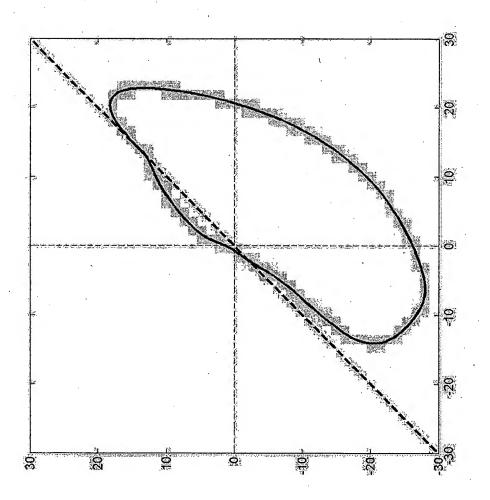


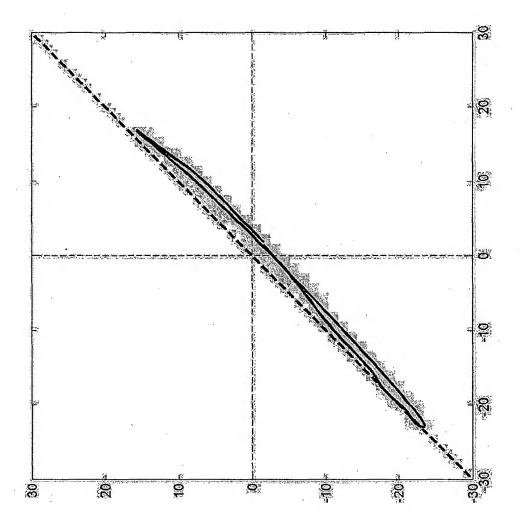


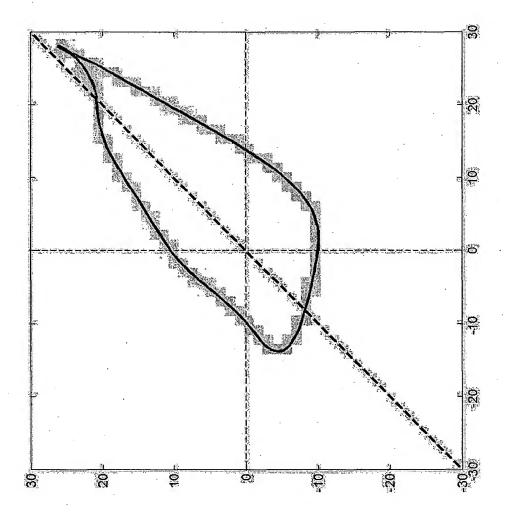


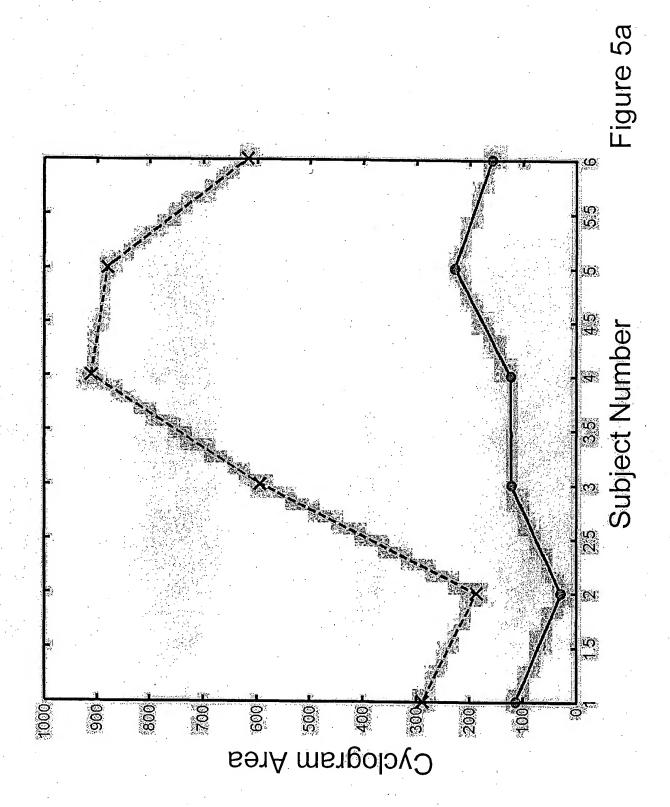


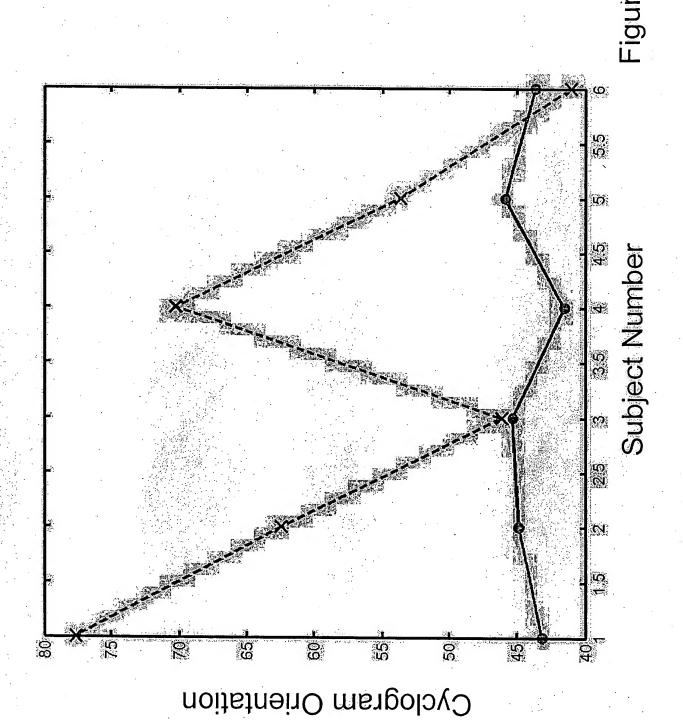












Moment Magnitude

Cyclogram Minimum